

SEQUENCE LISTING

<110> Lovenberg, Timothy
 Liu, Changlu
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 <150> 09/790,849
 <151> 2001-02-22
 <150> 60/208,260
 <151> 2000-05-31
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 ctgttcacaa ttgtcctttc attttattcc tcagcaacag gtcctaaatc agtttggtat 1020
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 <213> Homo sapiens

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Asn Ala Leu Val Ile Leu Ala Phe Val Val Asp Lys Asn Leu Arg His
35 40 45

Arg Ser Ser Tyr Phe Phe Leu Asn Leu Ala Ile Ser Asp Phe Phe Val
50 55 60

Gly Val Ile Ser Ile Pro Leu Tyr Ile Pro His Thr Leu Phe Glu Trp
65 70 75 80

Asp Phe Gly Lys Glu Ile Cys Val Phe Trp Leu Thr Thr Asp Tyr Leu
85 90 95

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Tyr Leu Ser Val Ser Asn Ala Val Ser Tyr Arg Thr Gln His Thr Gly
115 120 125

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130 135 140

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145 150 155 160

Gly Ser Glu Cys Glu Pro Gly Phe Phe Ser Glu Trp Tyr Ile Leu Ala
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180 185 190

Phe Asn Met Asn Ile Tyr Trp Ser Leu Trp Lys Arg Asp His Leu Ser
195 200 205

Arg Cys Gln Ser His Pro Gly Leu Thr Ala Val Ser Ser Asn Ile Cys
210 215 220

Gly His Ser Phe Arg Gly Arg Leu Ser Ser Arg Arg Ser Leu Ser Ala
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245 250 255

Ser Ser Leu Met Phe Ser Ser Arg Thr Lys Met Asn Ser Asn Thr Ile
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Ala Ser Lys Met Gly Ser Phe Ser Gln Ser Asp Ser Val Ala Leu His

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 325 330 335
 Ser Val Trp Tyr Arg Ile Ala Phe Trp Leu Gln Trp Phe Asn Ser Phe
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 Val Asn Pro Leu Leu Tyr Pro Leu Cys His Lys Arg Phe Gln Lys Ala
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 <213> Mus musculus

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 <212> DNA
 <213> Rattus rattus

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 <212> DNA
 <213> *Cavia porcellus*

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 gtggacagaa atcttagaca tcgaagtaat tacttttttc ttaacttggc cattgcagac 180
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 cggaagaaa caactgcctc tcttggttca gacaagtcac ggagaaagag cagtctcttg 780
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 catactgcct tttggctcca gtggttcaat tcctttgtta atcccttttt gtatccattg 1080
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 <213> *Mus musculus*

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 35 40 45

Arg Ser Asn Tyr Phe Phe Leu Asn Leu Ala Ile Ser Asp Phe Leu Val
 50 55 60

Gly Leu Ile Ser Ile Pro Leu Tyr Ile Pro His Val Leu Phe Asn Trp
 65 70 75 80

Asn Phe Gly Ser Gly Ile Cys Met Phe Trp Leu Ile Thr Asp Tyr Leu
 85 90 95

Leu Cys Thr Ala Ser Val Tyr Asn Ile Val Leu Ile Ser Tyr Asp Arg
 100 105 110

Tyr Gln Ser Val Ser Asn Ala Val Ser Tyr Arg Ala Gln His Thr Gly
 115 120 125

Ile Met Lys Ile Val Ala Gln Met Val Ala Val Trp Ile Leu Ala Phe
 130 135 140

Leu Val Asn Gly Pro Met Ile Leu Ala Ser Asp Ser Trp Lys Asn Ser
 145 150 155 160

Thr Asn Thr Lys Asp Cys Glu Pro Gly Phe Val Thr Glu Trp Tyr Ile
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Leu Thr Ile Thr Met Leu Leu Glu Phe Leu Leu Pro Val Ile Ser Val
 180 185 190

Ala Tyr Phe Asn Val Gln Ile Tyr Trp Ser Leu Trp Lys Arg Arg Ala
 195 200 205

Leu Ser Arg Cys Pro Ser His Ala Gly Phe Ser Thr Thr Ser Ser Ser
 210 215 220

Ala Ser Gly His Leu His Arg Ala Gly Val Ala Cys Arg Thr Ser Asn
 225 230 235 240

Pro Gly Leu Lys Glu Ser Ala Ala Ser Arg His Ser Glu Ser Pro Arg
 245 250 255

Arg Lys Ser Ser Ile Leu Val Ser Leu Arg Thr His Met Asn Ser Ser
 260 265 270

Ile Thr Ala Phe Lys Val Gly Ser Phe Trp Arg Ser Glu Ser Ala Ala
 275 280 285

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 290 295 300

Arg Ser Leu Ala Ile Leu Leu Ser Ala Phe Ala Ile Cys Trp Ala Pro
 305 310 315 320

Tyr Cys Leu Phe Thr Ile Val Leu Ser Thr Tyr Pro Arg Thr Glu Arg

325

330

335

Pro Lys Ser Val Trp Tyr Ser Ile Ala Phe Trp Leu Gln Trp Phe Asn
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Ser Phe Val Asn Pro Phe Leu Tyr Pro Leu Cys His Arg Arg Phe Gln
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Gln Asn Gln Ser Val Ser Ser
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<210> 9
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 <212> PRT
 <213> Rattus rattus

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Asn Ala Val Val Ile Leu Ala Phe Val Ala Asp Arg Asn Leu Arg His
 35 40 45

Arg Ser Asn Tyr Phe Phe Leu Asn Leu Ala Ile Ser Asp Phe Phe Val
 50 55 60

Gly Val Ile Ser Ile Pro Leu Tyr Ile Pro His Thr Leu Phe Asn Trp
 65 70 75 80

Asn Pro Gly Ser Gly Ile Cys Met Phe Trp Leu Ile Thr Asp Tyr Leu
 85 90 95

Leu Cys Thr Ala Ser Val Tyr Ser Ile Val Leu Ile Ser Tyr Asp Arg
 100 105 110

Tyr Gln Ser Val Ser Asn Ala Val Arg Tyr Arg Ala Gln His Thr Gly
 115 120 125

Ile Leu Lys Ile Val Ala Gln Met Val Ala Val Trp Ile Leu Ala Phe
 130 135 140

Leu Val Asn Gly Pro Met Ile Leu Ala Ser Asp Ser Trp Lys Asn Ser
 145 150 155 160

Thr Asn Thr Glu Glu Cys Glu Pro Gly Phe Val Thr Glu Trp Tyr Ile
 165 170 175

Leu Ala Ile Thr Ala Phe Leu Glu Phe Leu Leu Pro Val Ser Leu Val

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Pro Gly Leu Lys Glu Pro Ala Ala Ser Leu His Ser Glu Ser Pro Arg 245 250 255		
Gly Lys Ser Ser Leu Leu Val Ser Leu Arg Thr His Met Ser Gly Ser 260 265 270		
Ile Ile Ala Phe Lys Val Gly Ser Phe Cys Arg Ser Glu Ser Pro Val 275 280 285		
Leu His Gln Arg Glu His Val Glu Leu Leu Arg Gly Arg Lys Leu Ala 290 295 300		
Arg Ser Leu Ala Val Leu Leu Ser Ala Phe Ala Ile Cys Trp Ala Pro 305 310 315 320		
Tyr Cys Leu Phe Thr Ile Val Leu Ser Thr Tyr Arg Arg Gly Glu Arg 325 330 335		
Pro Lys Ser Ile Trp Tyr Ser Ile Ala Phe Trp Leu Gln Trp Phe Asn 340 345 350		
Ser Leu Ile Asn Pro Phe Leu Tyr Pro Leu Cys His Arg Arg Phe Gln 355 360 365		
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Gln Thr Gln Ser Val Ser Ser 385 390		

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 <213> Cavia porcellus

<400> 10

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Val Val Val Ile Leu Ala Phe Ile Val Asp Arg Asn Leu Arg His Arg

Leu Thr Thr Val Ile Tyr Ser Phe Phe Pro Glu Arg Asn Leu Thr Lys
 325 330 335

Ser Thr Trp Tyr His Thr Ala Phe Trp Leu Gln Trp Phe Asn Ser Phe
 340 345 350

Val Asn Pro Phe Leu Tyr Pro Leu Cys His Lys Arg Phe Gln Lys Ala
 355 360 365

Phe Leu Lys Ile Leu Pro Val Arg Arg Gln Ser Thr Pro Pro His Asn
 370 375 380

Arg Ser Ile Ser Thr
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<210> 16
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 <212> DNA
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 <223> Oligonucleotide Primer
 <400> 23
 acactcctgc agacaggacc ccgattcaag 30

<210> 24
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 <212> DNA
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33